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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/517,895	03/03/2000	Lev Novik	2150	5628
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LAW OFFICES OF ALBERT S. MICHALIK, PLLC 704-228TH AVENUE N.E. SUITE 193 SAMMAMISH, WA 98074

EXAMINER
TRUONG, LECHI
ART UNIT PAPER NUMBER

2126 DATE MAILED: 06/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Commons	09/517,895	NOVIK ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAN INC DATE of this comment of	LeChi Truong	2126				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status 1) Responsive to communication(s) filed on <u>03 №</u>	March 2000					
	s action is non-final.					
/ 		prosecution as to the merits is				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 11-20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>11-20</u> is/are rejected.						
7) Claim(s) is/are objected to.	•					
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine10) The drawing(s) filed on is/are: a) acception		aminor				
, <u> </u>	•					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)				

Page 2

Application/Control Number: 09/517,895

Art Unit: 2126

DETAILED ACTION

This is in response to election filed 4/13/03. Applicants have elected claims 11-20 and canceled claims 1-10.

Claim Rejections - 35 USC § 103

1. Claims 11, 12, 14, 15, 19, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ehab S. Al-Shaer (A Survey of Event Filtering Mechanisms for Dynamic Multi-Point Applications) in view of William Ford(Data structure with C++)

As to claim 11, Ehab teaches notification (notification, section 2,1, ln 5-43, section 2.2, ln 20-30), event (section 2,1, ln 5-43/ section 2.2, ln 20-30/ section 3.2.1, ln 5-50), an event filtering tree (tree, section 3.2.1, ln 5-50), OR node (Predicates may be joined by operators such as AND, OR and NOT, section 2.1 ln 5-43), a child node, another child node (node/predicate, section 3.2.1, ln 5-50), a first evaluation/ second evaluation (test predicates, section 3.2.1, ln 5-50), information of event(a single event/ the message field value, section 3.4.1, page 9, ln 3-13), leaf node(leaf node/ the terminal node, section 3.2.1, ln 5-50), the result(True, False, section 3.2.1, ln 5-50), the occurrence of the event(the occurrence of the corresponding event, page 14, ln 1-7), subscriber(1-10 / section 3.5, page 11, ln 1-25), the query information satisfied by event(True, False, section 3.2.1, ln 5-50/ message_id=51 or 17<= transaction-number< 40, section 3.4, page 9, ln 1-13).

Ehab does not explicit teach traversing a tree. However, Ford teaches inorder traversal (Page 547).

It would have been obvious to apply the teaching of Johnstone to Ehab in order to visit the node from the left tree of node to the parent node and the visit the right tree node.

Art Unit: 2126

As to claim 12, Ehab teaches information in leaf node corresponds to registered subscribers (the true node that denotes the acceptance of the packet, section 3.2.1, ln 5-50).

As to claim 14, Shaer teaches leaf node (leaf node, section: 3.2.1, ln 32-50), true/false (true, false, section 3.2.1, ln 32-50).

As to claim 15, Shaer teaches event parameter value (the message field value, section 3.4, page 9, ln 3-13), a data point (a matching value, section 3.4, apge 9, ln 3-13).

As to claim 16, Shaer teaches set of queries (SQL queries, section 3.3.2, page 8, ln 24-47), the event filtering tree (event filter, section 3.3.2, page 8, ln 24-47).

As to the computer-readable medium of claim 19, refer to the rejection of claim 1. Further, Shaer teaches at least two nodes (two terminal nodes).

As to claim 20, Shaer teaches plurality of data points (message_id and transaction number, section 3.4.2, page 9, ln 30-38).

2. Claims 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ehab S. Al-Shaer (A Survey of Event Filtering Mechanisms for Dynamic Multi-Point Applications) in view of William Ford (Data structures with C++) further in view of Thai (US. Patent 5,666,528).

As to claim 13, Shaer teaches the query information (True, False, True, False, section 3.2.1, ln 5-50).

Shaer does not explicit teach the query information includes determining which subscribers correspond to each satisfied query. However, Thai teaches the query expression include a logical function... a logical function is an entity which evaluates to true or false (col 8, ln 36-62).

Art Unit: 2126

It would have been obvious to apply the teaching of Thai to Shaer in order to select desired events by entering the fitter using the queries corresponding to values stored in the fields and to optimize for providing rapid access to the desired events.

3. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ehab S. Al-Shaer (A Survey of Event Filtering Mechanisms for Dynamic Multi-Point Applications) in view of William Ford(Data structures with C++) in view of Thai (US. Patent 5,666,528) further in view of Bhatt et al (US, Patent 6,405,191 B1).

As to claim 17, Shaer does not explicit teach the set of queries is received from an event subscriber. However, Knight teaches the service receiving a query that is written in a query language supported by the relational database system from a subscriber (col 14, ln 61-67).

It would have been obvious to apply the teaching of Knight to Shaer in order to make an event-filtering tree take advantage of the existing knowledge base and toolsets of the query language.

4. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ehab S. Al-Shaer (A Survey of Event Filtering Mechanisms for Dynamic Multi-Point Applications) in view of Thai (US. Patent 5,666,528) further in view of Knight et al (US. Pateny 6,493,703 B1).

As to claim 18, Shaer does not explicit teach the set of queries is received from an event provider. However, Knight teaches the service provider specified queries col 19, ln 57-67).

It would have been obvious to apply the teaching of Knight to Shaer in order to make an event-filtering tree take advantage of the existing knowledge base and toolsets of the query language.

5. Conclusion

Art Unit: 2126

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (703) 305 5312. The examiner can normally be reached on 8 - 5.

Page 5

Fax phone: AFTER_FINAL faxes must be signed and sent to: (703) 746-2738, OFFICAL faxes must be signed and send to: (703) 746-7239, NON OFFICIAL faxes should not be signed, please send to: (703) 746-7240

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 305 9000.

LeChi Truong June 16, 2003

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Art Unit: 2126

Page 6